

## **Abstract**

Provided are methods for the vitrification of human oocytes, which comprises: (a) placing human oocytes on a transfer instrument; and (b) placing the transfer instrument and the human oocytes directly into a slushed nitrogen ( $N_2$  slush), wherein the human oocytes are directly exposed to the  $N_2$  slush thereby undergoing vitrification, and wherein the human oocytes are able to live for a period of time after the human oocytes are devitrified.